BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Sanitary works at Manjunatha Layout, Nagawara, Nagawara Colony in Ward No. 06 Thanisandra

							Estimate Cost Rs.		7500000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.1/ PWD SR 2016-17	cum							
	For UGD Works								
	Nagawara Chanukya Layout Main Road		1	405.00	0.90	2.50+3.00	1002.38		
						2			
	Hegadenagara 4th Cross		1	240.00	0.75	2.10+2.70	432.00		
						2			
	K Narayanapura Main Road		1	180.00	0.90	2.50+3.00	445.50		
						2			
							1879.88	86.92	**163399.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	Supply of following diameters S&S RCC SPUN/VIBRATED CAST PIPES (REINFORCED) of NP-3 Class conforming to IS 458:1988 With Latest amendments using ordinary port land cement and conveying to worksite roling and lowering into trenches laying true to line and level including loading and unloading at both destinations and jointing of pipes with jack to correct position including cost of jointing materials ie. rubber rings confirming to IS 5382 for S&S RCC Pipes with all lead and lift as directed and giving necessary hydralic test as per ISS and testing and commissioning etc., complete (Contractor will make his own arrangements for procurings for testing) Before execution of the work contractor shall carry out the survey and will be paid extra as per the saperate item. (Page No. 73, Item Sl No.4 BWSSB SR-2016-17)	**mtrs**							
	Nagawara Chanukya Layout Main Road		1	405.00			405.00		
	K Narayanapura Main Road		1	180.00			180.00		
	Basic Rate	1952.00					**585.00**	2069.12	**1210435.00**
	Area Weightage @ 6%	117.12							
	Total	**2069.12**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 12-1.1 : Providing and laying in position to required level or slope 300mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification Pg 70 item no 11.6 PWP	mtrs							
	Hegadenagara 4th Cross		1	240.00			**240**	661.44	**158746.00**
	Basic Rate	624.00							
	Area Weightage @ 6%	37.44							
	Total	**661.44**							
4	KSRB 12-3.1 : Providing and laying in position plain cement concrete of mix M 7.5 using 40mm and down size graded granite / trap metal for haunching of 300mm internal diameter stoneware pipes, concrete machine mixed laid in layers not exceeding 15 cms thick, well compacted, including cost of materials, labour charges, form work, HOM of machinery, curing complete as per specifications. Specification Pg 71 item no 11.24 KPWD (2016-17)	Mrts							
	Hegadenagara 4th Cross		1	240.00			**240**	926.44	**222346.00**
	Basic Rate	874.00							
	Area Weightage @ 6%	52.44							
	Total	**926.44**							
5	KSRB 12-3.1 : Providing and laying in position plain cement concrete of mix M 7.5 using 40mm and down size graded granite / trap metal for haunching of 450mm internal diameter stoneware pipes, concrete machine mixed laid in layers not exceeding 15 cms thick, well compacted, including cost of materials, labour charges, form work, HOM of machinery, curing complete as per specifications. Specification Pg 71 item no 11.27 KPWD (2016-17)	mtrs							
	Nagawara Chanukya Layout Main Road		1	405.00			405.00		
	K Narayanapura Main Road		1	180.00			180.00		
							585.00	1322.88	**773885.00**
	Basic Rate	1248.00							
	Area Weightage @ 6%	74.88							
	Total	**1322.88**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRB 12-5.1 : Constructing brick masonry circular type manhole 1.22 m internal dia at bottom 1.68m deep and 0.56m dia at top with table moulded non-modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 15 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per	Nos							
	Nagawara Chanukya Layout Main Road		1	14.00			14		
	Hegadenagara 4th Cross		1	8.00			8		
	K Narayanapura Main Road		1	6.00			6		
							28	33324.28	**933080.00**
	Basic Rate	31438.00							
	Area Weightage @ 6%	1886.28							
	Total	**33324.28**							
7	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 16-17)	Cum							
	For UGD		Qty Vide Item No.1				**1879.88**		
							1879.88	59.36	**111589.00**
	Basic Rate	76.00							
	6% area weightage	**4.56**							
	Total	80.56							
8	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 141/ Item No. 19.1/ PWD	Cum							
	Culverts		6	6.20	2.10	1.20	93.74		
	For Chainlink Fencing		1	150.00	0.60	0.60	53.87		
	For SSM Drain Hegadenagara 2nd Main		2	68.00	1.80	1.19	291.91		
							439.53	86.92	**38204.00**
	Basic Rate	82.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
9	KSRB-4-1.3 : Providing and laying in position plain cement concrete of mix M 1:4:8 withOPC cement at 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.3/ PWD SR 2016-17	**Cum**							
	Culverts		6	6.20	2.10	0.15	11.72		
	For Chainlink Fencing		1	150.00	0.60	0.15	13.50		
	For SSM Drain Hegadenagara 2nd Main		2	68.00	1.80	0.15	36.72		
							61.94	5159.02	**319539.00**
	Basic Rate	4867.00							
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
10	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 23/ Item No. 5.6/ PWD SR 2016-17	cum							
	Culverts		6X2	6.20	0.60	0.45	20.09		
	For Chainlink Fencing		1	150.00	0.60	0.40	36.00		
	For SSM Drain Hegadenagara 2nd Main		2X2	68.00	0.60	0.45	73.44		
							129.53	4438.22	**574874.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
11	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23/ Item No. 5.9/ PWD SR 2016-17	**Sqm**							
	Culverts		6X2	6.20	0.50	0.45	16.74		
	For Chainlink Fencing		1	150.00	0.45	0.40	27.00		
	For SSM Drain Hegadenagara 2nd Main		2X2	68.00	0.45	0.45	55.08		
							98.82	**5305.30**	**524270.00**
	Basic Rate	5005.00							
	Area Weightage @ 6%	300.30							
	Total	**5305.30**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 16/ Item No. 4.34/ PWD SR 2016-17	Sqm							
	Culverts		6	6.20	0.60		22.32		
	For Sides		6X2	6.20	0.23		17.11		
			6X2	1.65	0.23		4.55		
							43.99	**271.36**	**11936.00**
	Basic Rate	**256.00**							
	Area Weightage @ 6%	15.36							
	Total	**271.36**							
13	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2016-17	cum							
	Culverts		6X2	6.20	0.50	0.10	3.72		
	Vent Bed		6	6.20	0.60	0.10	2.23		
	For Chainlink Fencing								
	For Chainlink Fencing		1	150.00	0.45	0.10	6.75		
	For SSM Drain Hegadenagara 2nd Main		2X2	68.00	0.45	0.10	12.24		
	For SSM Drain Vent		2	68.00	0.60	0.10	8.16		
							33.10	5598.92	**185335.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
14	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 109/ Item No. 15.1/ PWD SR 2016-17	Sqm							
	Culverts		6X2	6.20		0.50	37.20		
	For SSM Drain Hegadeangara 2nd main Road		2	68.00		0.60	81.60		
							118.80	102.82	**12215.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	**102.82**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No.	Cum							
	Culverts		6	6.20	1.80	0.23	15.40		
							15.40	6371.66	**98129.00**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
16	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17	Qtl							
	0.92Ton/Cum		0.092	15.40			**1.42**	64243.42	**91025.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
17	Supplying and fixing M.S rectangular poles made out of 2 equal angles of 65x656 mm welded together and fixed in CC (1:2:4) with 2 NOS 16 mm dia, M.S hold fast rods each of length 25 cms, including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete), No.265/ Item	m							
			150			2.40	**360.00**	868.14	**312530.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	819.00							
	Area Weightage @ 6%	49.14							
	Total	**868.14**							
18	Providing and fixing M.S. Block pipe of 38 mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two vertical poles (M.S rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the engineer in charge of work etc, complete including two coats of approved quality paint over one coat of shop paint, No. 265 Item No. 37.4 PWD SR 2016-17	m							
	For Chainlink Fencing		3	150.00			450.00		
							450.00	343.44	**154548.00**
	Basic Rate	324.00							
	Area Weightage @ 6%	19.44							
	Total	**343.44**							
19	Providing chain link fencing 50 mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall bed welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the engineer – in charge of work including two coats of approved quality paint over	Sqm							
	For Chainlink Fencing		1	150.00		1.65	247.50		
							247.50	698.54	**172889.00**
	Basic Rate	659.00							
	Area Weightage @ 6%	39.54							
	Total	**698.54**							
20	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Page No. 104/ Item No. 15.74/ PWD SR -	Sqm							
	For Chainlink Fencing		1	150.00		1.65	**247.50**		
							247.50	88.56	**21919.00**
	Basic Rate	82.00							
	Area Weightage @ 8%	6.56							
	Total	**88.56**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
21	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/ Item No. 5.30/ PWD SR 2016-17	Sqm							
	For SSM Drain Hegadenagar 2nd main		2	68.00			136.00		
					l e 200/0.45		136.00		
							302.22	331.78	**100271.00**
	Basic Rate	313.00							
	Area Weightage @ 6%	18.78							
	Total	**331.78**							
22	KSRB 15-17.5: Applying **priming coat** over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 118/ Item	**Sqm**							
	Kerb Stone Painting		2	68.00		0.30	**40.80**		
							40.80	**43.46**	**1773.00**
	Basic Rate	41.00							
	Area Weightage @ 6%	2.46							
	Total	**43.46**							
23	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with **enamel paint** to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 119/ Item No.								
	For Kerb Stone		2	68.00		0.30	40.80		
							40.80	**89.04**	**3633.00**
	Basic Rate	84.00							
	Area Weightage @ 6%	5.04							
	Total	**89.04**							
24	Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA	Sqm							
	For SSM Drain Hegadenagara 2nd Main Road		2	68.00	1.50		204.00		
							204.00	1856.67	**378761.00**
	Data Rate	**1856.67**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
25	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum							
			Qty. Vide Item No. 1+2				2459.62		
							2459.62	73.12	179847.00
	Basic Rate Lead Charges Upto 2.00	5.12							
	PWD SR 2015-16 (P.118/I.17.1) For	68.00							
	Total	**73.12**							
							Grand Total		6755178.00
26	For 10% KRIDL Charges								675518.00
27	For 1% Labour Cess								67552.00
28	Miscesallaneous Charges	L/S							1752.00
									7500000.00

ADMINISTRATIVE APPROVAL
Accorded For Rs. Seventy Five lakhs only
Head of A/c P-3295
Div. Ref. No. 161/17-18 Date 17/01/18
AE 17/01
EE(BTP) 17/01

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 06(Thanisandra)

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

Technical Sanction
Accorded For "75.00 lakh Rs.
Head of A/C P3295
CER NO : 540 Dt: 17.01.18
(540)
TA CE (YNK)